

ABSTRACT OF DISCLOSURE

The present invention is a manufacturing system for alloys containing rare earth metals which presents oxidation of alloy during production, facilitates thermal history control of the alloy, and efficiently produces alloys of a uniform structure. The manufacturing system includes a melting furnace for melting a starting material alloy, solidifying means for continuously solidifying an alloy melt into alloy flakes, crystal structure
10 controlling means for controlling the alloy crystal structure, and cooling means for cooling the alloy flakes. These components are operable in an inert gas atmosphere. The crystal structure controlling means includes a conveying device having a delivery space for continuously
15 delivering the alloy flakes from the solidifying means to the cooling means, and the conveying device has temperature regulating means for regulating the temperature of the delivery.